Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims 1-16:

1. (currently amended) A compound of the formula:

$$G \xrightarrow{\mathbb{R}^2} \mathbb{R}^3 \xrightarrow{\mathbb{R}^1} \mathbb{R}^1$$

or a pharmaceutically acceptable salt thereof, wherein:

A is CH or nitrogen;

B is $-CH_2$ -, -CHF-, $-CF_2$ -, NR_4 or O, with the proviso that when A is N, B is $-CH_2$ -, -CHF- or $-CF_2$ -;

G is oxygen or =N-CN,

R₁ is hydrogen or C₁-6 alkyl;

R₂ is hydrogen; C₁-10 alkyl optionally substituted

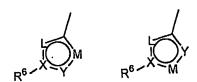
with C₁₋₆ alkoxy or halogen; aralkyl, a –CH₂-heterocycle or a –CH₂-C₅ cycloalkyl ring each of which may be optionally substituted with one or more of halo, hydroxyl,

 C_{l-6} alkyl, C_{l-6} haloalky, C_{l-6} haloalkoxy, C_{2-6} alkenyl, C_{2-6} haloalkenyl, C_{2-6} alkynyl or C_{2-6} haloalkynyl;

 R_3 is hydrogen; a cyclic alkyl radical containing from 3-6 carbon atoms or a C_1 - C_6 alkyl;

R₄ is hydrogen or lower alkyl;

R₅ is a 5-membered unsaturated heterocyclic ring having one of the following structures:



where L_{and} M are independently O or N (or NH where the circumstances require) with the proviso that both of L and M cannot be O; Y is S, CH, O or N (or NH where the circumstances require); X is C or N; and

R6 is lower alkyl; hydrogen; arylamino optionally substituted with one or more of halo, hydroxy, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, C_{2-6} alkenyl, C_{2-6} haloalkenyl, C_{2-6} alkynyl or C_{2-6} haloalkynyl; aralkyl optionally substituted with one or more of halo, hydroxy, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-6} alkoxy, C_{1-6} haloalkoxy, C_{2-6} alkenyl, C_{2-6} haloalkenyl, C_{2-6} alkynyl or C_{2-6} haloalkynyl; or a group of formula:



wherein n is an integer in the range from 1 to 4 and HET is a heterocyclic group optionally substituted with one or more of halo, hydroxy, $C_{l^{-6}}$ alkyl, $C_{l^{-6}}$ haloalkyl, $C_{l^{-6}}$ alkoxy, C_{1-6} haloalkoxy, C_{2-6} alkenyl, C_{2-6} haloalkenyl,

C₂-6 alkynyl or C₂-6 haloalkynyl;

or R_5 may also be C_2 - C_4 -aralkyl, - CH_2 -O- R_7 where R_7 is C_{1^-6} alkyl, C_{2^-6} alkenyl, C_{2^-6} alkynyl, C_2 - C_4 aralkyl which groups may be optionally substituted with fluoro or hydroxy; and

 R_8 is hydrogen or aryl (optionally substituted with one or more of halo, hydroxyl, C_{l^-6} alkyl, C_{l^-6} haloalky, C_{l^-6} alkoxy, C_{l^-6} haloalkoxy, C_{2^-6} alkenyl, C_{2^-6} haloalkenyl, C_{2^-6} alkynyl or C_{2^-6} haloalkynyl);

with the proviso that when either R_3 or R_8 is not hydrogen, the other is hydrogen.

2. (original) A compound according to claim 1, in which

G is O:

 R_1 is H or lower alkyl;

 R_2 is C_{1-8} alkyl, -CH₂-aryl or a -CH₂-substituted heterocycle each of which may be optionally substituted with one or more of halo, hydroxy,

 C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-8} alkoxy, C_{1-6} haloalkoxy, C_{2-6} alkenyl,

 C_{2-6} haloalkenyl, C_{2-6} alkynyl or C_{2-6} haloalkynyl;

R₃ is hydrogen, cyclobutyl, cyclopropyl, methyl, ethyl, isopropyl, butyl, secbutyl;

R₄ is hydrogen;

R₅ is one of the following 5-membered unsaturated heterocyclic ring structures:

R₆ is methyl, aralkyl, arylamino, aralkyl substituted by one or more halo and having a methylene group linking the aryl to the unsaturated 5-membered ring, aralkyl substituted by one or more halo and having an ethylene group linking the aryl to the unsaturated 5-membered ring;

R₈ is hydrogen, phenyl or halo-substituted phenyl.

3. (original) A compound according to claim 2 wherein

 R_1 is H;

R₂ is -CH₂-aryl optionally substituted with one or more of halo,

hydroxy, C₁₋₆ alkyl, C₁₋₆ haloalkyl, C₁₋₈ alkoxy, C₁₋₆ haloalkoxy,

 $C_{2\mbox{-}6}$ alkenyl, $C_{2\mbox{-}6}$ haloalkenyl, $C_{2\mbox{-}6}$ alkynyl or $C_{2\mbox{-}6}$ haloalkynyl;

R₃ is hydrogen or cyclobutyl;

R₅ is one of the following 5-membered unsaturated heterocyclic ring structures:

R₆ is phenyl, phenylamino substituted by one or more halo, phenylmethyl substituted by one or more halo, or phenethyl substituted by one or more halo;

R₈ is hydrogen or a fluoro-substituted phenyl.

4. (original) A compound according to claim 3, wherein

 $R_2 \ is \ -CH_2 - C_6H_5 \ or \ -CH_2 - heterocyclic \ aryl \ each \ of \ which \ may \ be$ optionally substituted with one or more of halo, hydroxy, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-8} alkoxy, C_{1-6} haloalkoxy, C_{2-6} alkenyl, C_{2-6} haloalkenyl, C_{2-6} alkynyl or C_{2-6} haloalkynyl;

 R_3 is H;

 R_5 is one of the following 5-membered unsaturated heterocyclic ring structures:

R₆ is a meta chloro-substituted phenylamino, a meta chloro-substituted phenylmethy or a meta chloro-substituted phenethyl;

R₈ is 3,5-difluorophenyl.

5. (original) A compound according to claim 1, wherein

A is CH;

B is $-CH_2-$;

G is oxygen;

R₁ is hydrogen;

 R_2 is C_{1-10} alkyl or -CH₂-aryl (optionally substituted by one or more of halo, hydroxy, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-8} alkoxy, C_{1-6} haloalkoxy, C_{2-6} alkenyl, C_{2-6} haloalkenyl, C_{2-6} haloalkyny);

R₃ is cyclobutyl or H;

R₅ is one of the following 5 -membered unsaturated heterocyclic ring structures:

R6 is methyl, aralkyl, arylamino, aralkyl substituted by one or more halo and having a methylene group linking the aryl to the unsaturated 5-membered ring, aralkyl substituted by one or more halo and having an ethylene group linking the aryl to the unsaturated 5-membered ring; and

6. (original) A compound according to claim 1, in which A is CH;

B is O;

G is oxygen;

R₁ is hydrogen;

 R_2 is C_{1-10} alkyl, -CH₂-aryl (optionally substituted by one or more of halo,

hydroxy, $C_{1^{-6}}$ alkyl, $C_{1^{-6}}$ haloalkyl, $C_{1^{-8}}$ alkoxy, $C_{1^{-6}}$ haloalkoxy, $C_{2^{-6}}$ alkenyl,

 C_{2-6} haloalkenyl, C_{2-6} alkynyl or C_{2-6} haloalkynyl);

R₃ is cyclobutyl or H;

 R_5 is $-CH_2-O-CH_3$, $-CH_2-O-CH_2-CH_2-C_6H_5$ or one of the following 5-membered unsaturated heterocyclic ring structures:

R₆ is methyl, aralkyl, arylamino, aralkyl substituted by one or more halo and having a methylene group linking the aryl to the unsaturated 5-membered ring, aralkyl substituted by one or more halo and having an ethylene group linking the aryl to the unsaturated 5-membered ring; and

7. (original) A compound according to claim 1, wherein.

A is CH; B is NH;

G is oxygen;

R₁ is hydrogen;

R₂ is C₁₋₁₀ alkyl, -CH₂-aryl, a -CH₂-heterocyclic group or a

-CH $_2$ -substituted C_5 cycloalkyl (optionally substituted by one or more of halo, hydroxy,

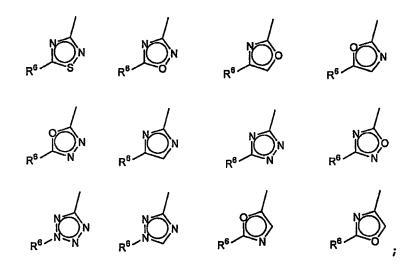
 $C_{1\mbox{-}6}$ alkyl, $C_{1\mbox{-}6}$ haloalkyl, $C_{1\mbox{-}8}$ alkoxy, $C_{1\mbox{-}6}$ haloalkoxy, $C_{2\mbox{-}6}$ alkenyl,

 C_{2-6} haloalkenyl, C_{2-6} alkynyl or C_{2-6} haloalkynyl);

R₃ is cyclobutyl or H;

R₄ is hydrogen;

R₅ is -CH₂-O-CH₃, -CH₂-O-CH₂-CH₂-C₆H₅ or one of the following 5-membered unsaturated heterocyclic ring structures:



R₆ is methyl, aralkyl, arylamno, aralkyl substituted by one or more halo and having a methylene group linking the aryl to the unsaturated 5-membered ring, aralkyl substituted by one or more halo and having an ethylene group linking the aryl to the unsaturated 5-membered ring; and

8. (original) A compound according to claim 1, wherein

A is N;

B is $-CH_2-$;

G is oxygen;

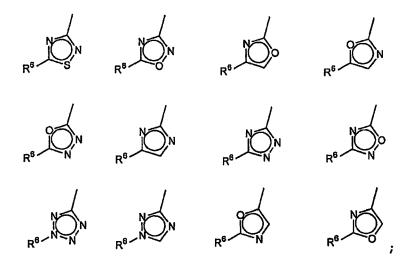
R₁ is hydrogen;

R₂ is C₁₋₁₀ alkyl, -CH₂-aryl, a -CH₂-heterocyclic group or a

-CH₂-substituted C_5 cycloalkyl (optionally substituted one or more of halo, hydroxy, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-8} alkoxy, C_{1-6} haloalkoxy, C_{2-6} alkenyl, C_{2-6} haloalkynyl);

R₃ is cyclobutyl or H;

R₅ is one of the following 5-membered unsaturated heterocyclic ring structures:



R₆ is methyl, aralkyl, arylamino, aralkyl substituted by one or more halo and having a methylene group linking the aryl to the unsaturated 5-membered ring, aralkyl, substituted by one or more halo and having an ethylene group linking the aryl to the unsaturated 5-membered ring; and

9. (original) A compound according to claim 1, wherein

A is N;

B is $-CH_2-$;

G is oxygen;

R₁ is hydrogen;

R₂ is C₁₋₁₀ alkyl -CH₂-aryl, a -CH₂-heterocyclic group or a

-CH₂-substituted C₅ cycloalkyl (optionally substituted by one or more of halo, hydroxy,

C₁-6 alkyl, C₁₋₆ haloalky, C₁-8 alkoxy, C₁-6 haloalkoxy, C₂-6 alkenyl,

C₂-6 haloalkenyl, C₂-6 alkynyl or C₂-6 haloalkynyl);

R₃ is cyclobutyl or H;

R₅ is -CH₂-O-CH₃; and

10. (original) A compound according to claim 1, wherein

A is N;

B is -CH₂-;

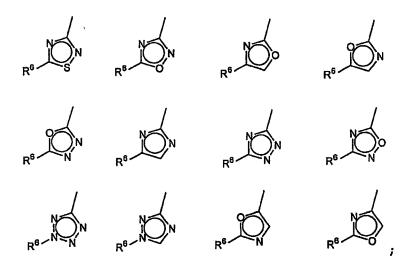
G is oxygen;

R₁ is hydrogen;

 R_2 is C_{1-10} alkyl, -CH₂-aryl or a -CH₂-heterocyclic group, (optionally substituted by one or more of halo, hydroxy, C_{1-6} alkyl, C_{1-6} haloalkyl, C_{1-8} alkoxy, C_{1-6} haloalkoxy, C_{2-6} alkenyl, C_{2-6} haloalkenyl, C_{2-6} alkynyl or C_{2-6} haloalkynyl);

R₃ is hydrogen or cyclobutyl;

R₅ is one of the following 5-membered unsaturated heterocyclic ring structures:



R₆ is methyl, aralkyl, arylamino, aralkyl substituted by one or more halo and having a methylene group linking the aryl to the unsaturated 5-membered ring, aralkyl substituted by one or more halo and having an ethylene group linking the aryl to the unsaturated 5-membered ring; and

R₈ is phenyl,3,5-difluorophenyl or H.

11. (original) A compound according to claim 1, having the formula:

12. (previously presented) A pharmaceutical composition comprising a therapeutically effective amount of the compound of claim 1.

13. (cancel)

- 14. (currently amended) A method of manufacturing Use of a compound in accordance with claim 1 in the manufacture of a medicament for the treatment of disorders caused by the malfunction of the acetylcholine or muscarinic systems comprising the step of placing the compound of claim 1 into a pharmaceutical composition in a unit dosage form.
- 15. (currently amended) The <u>methoduse</u> of claim 14, wherein the disorder is Alzheimer's disease.
- 16. (currently amended) A method of treatment, prophylaxis and/or inhibition of disorders caused by the malfunction of the acetylcholine or muscarinic systems comprising the administration of a therapeutically effective amount of a compound as claimed in claim 1 to a subject in need thereof.